

Material Safety Data Sheet



**UNIVERSAL INDICATOR SOLUTION
pH 4 - 11**

VERSION : 05
REVISION DATE : 14/06/2025
EFFECTIVE DATE : 16/06/2025

Product Code : 32220

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1. Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Trade name : UNIVERSAL INDICATOR SOLUTION pH 4 - 11
Product code : 32220
Identification of the product : UNIVERSAL INDICATOR SOLUTION pH 4 - 11

1.2. Relevant identified uses of the substance or mixture and uses advised against

Identified uses : Laboratory chemicals, Manufacture of substances

1.3. Details of the supplier of the safety data sheet

Company identification

MOLYCHEM INDIA LLP
Office: Maker Tower 'E', 41-A2, 4th Floor, Above Maker Arcade, Cuffe Parade, Mumbai 400 005 (INDIA)
Tel: +91 22 4066 8111, 2205 7772 .
Email : info@molychem.net
Works: Plot No. B/9, Badlapur M.I.D.C.,
OPP.Shobhavat Textile Co., Kulgaon, Badlapur (E),
Dist.-Thane-421 503.

1.4. Emergency telephone number

Emergency number : +91 22 4066 8111 (10:00am - 6:00 pm)

2. Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]
Flammable liquids, Category 3 H226 H226

Full text of classification categories and H statements : see section 16

Adverse physicochemical, human health and environmental effects

No additional information available

2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms (CLP)



Signal word (CLP)

GHS02
: Warning

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Hazard statements (CLP)

: H226 - Flammable liquid and vapour

2.3. Other hazards

H226 - Flammable liquid and vapour

3. Composition/information on ingredients

3.1. Substances

Name : UNIVERSAL INDICATOR SOLUTION pH 4 - 11

3.2. Mixtures

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
WATER	(CAS-No.) 7732-18-5	49.91	Not classified
METHANOL	(CAS-No.) 67-56-1	45	Flam. Liq. 2, H225 Acute Tox. 3 (Dermal), H311 Acute Tox. 3 (Inhalation), H331 Acute Tox. 3 (Oral), H301 STOT SE 1, H370
PHENOLPHTHALEIN	(CAS-No.) 77-09-8	0.05	Muta. 2, H341 Carc. 1A, H350 Repr. 2, H361
BROMOTHYMOL BLUE INDICATOR	(CAS-No.) 76-59-5	0.025	Not classified
METHYL RED INDICATOR	(CAS-No.) 493-52-7	0.006	Not classified
THYMOL BLUE INDICATOR	(CAS-No.) 76-61-9	0.003	Not classified

4. First aid measures

4.1. Description of first aid measures

First-aid measures after inhalation : Remove person to fresh air and keep comfortable for Breathing. If you feel unwell, seek medical advice

First-aid measures after skin contact : Wash skin with plenty of water. If skin irritation occurs: Get medical advice/attention

First-aid measures after eye contact : Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical

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advice/attention.

First-aid measures after ingestion

: Rinse mouth out with water. If you feel unwell, seek medical advice.

4.2. Most important symptoms and effects, both acute and delayed

No additional information available

4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

5. Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

: dry chemical powder, alcohol-resistant foam, carbon dioxide (CO₂).

Unsuitable extinguishing media

: Do not use a heavy water stream.

5.2. Special hazards arising from the substance or mixture

Fire hazard

: Flammable liquid and vapour

Explosion hazard

: Heating may cause a fire or explosion

5.3 Advice for firefighters

Protection during firefighting

: Do not attempt to take action without suitable protective equipment.

6. Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Emergency procedures

: Avoid contact with skin, eyes and clothing

6.1.2. For emergency responders

Protective equipment

: Use personal protective equipment as required.

6.2. Environmental precautions

Avoid release to the environment.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up

: Clean up immediately by sweeping or vacuum

6.4. Reference to other sections

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No additional information available

7. Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling	: Avoid contact with eyes
Hygiene measures	: Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions	: Store in a well-ventilated place. Keep container tightly closed
Storage away from	: Strong bases. Strong acids. Sources of ignition. Direct sunlight.
Recommended storage temperature	: +15 ⁰ C to +25 ⁰ C

7.3. Specific end use(s)

No additional information available

8. Exposure controls/personal protection

8.1. Control parameters

No additional information available

8.2. Exposure controls

Eye protection	: Chemical goggles or face shield
Hand protection	: Protective gloves
Skin protection	: Wear suitable protective clothing
Respiratory protection	: Wear respiratory protection

9. Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state	: Liquid
Colour	: Red
Odour	: alcoholic odour
Odour threshold	: No data available
pH	: 4 - 11
Relative evaporation rate	: No data available

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Melting point	: No data available
Freezing point	: No data available
Boiling point	: No data available
Flash point	: 19 °C
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Flammability (solid, gas)	: No data available
Vapour pressure	: No data available
Relative vapour density at 20 °C	: 11.3
Relative density	: No data available
Density	: 0.93 g/cm ³
Solubility	: Water: Soluble
Log Pow	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosive properties	: No data available
Oxidising properties	: No data available
Explosive limits	: No data available

9.2. Other information

No additional information available

10. Stability and reactivity

10.1. Reactivity

No additional information available

10.2. Chemical stability

Stable under normal conditions

10.3. Possibility of hazardous reactions

No additional information available

10.4. Conditions to avoid

Direct sunlight. Heat. Open flame. Overheating.

10.5. Incompatible materials

No additional information available

10.6. Hazardous decomposition products

No additional information available

11. Toxicological information

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11.1. Information on toxicological effects

Acute toxicity	: Not classified
Skin corrosion/irritation	: Not classified pH: 4 - 11
Serious eye damage/irritation	: Not classified pH: 4 - 11
Respiratory or skin sensitisation	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified
STOT-single exposure	: Not classified
STOT-repeated exposure	: Not classified
Aspiration hazard	: Not classified

12. Ecological information

12.1. Toxicity

Hazardous to the aquatic environment, short-term (acute)	: Not classified
Hazardous to the aquatic environment, long-term (chronic)	: Not classified

12.2. Persistence and degradability

No additional information available

12.3. Bioaccumulative potential

No additional information available

12.4. Mobility in soil

No additional information available

12.5. Results of PBT and vPvB assessment

No additional information available

12.6. Other adverse effects

No additional information available

13. Disposal considerations

13.1. Waste treatment methods

No additional information available

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14. Transport information

In accordance with ADR / RID / IMDG / IATA / ADN

14.1. UN number

UN-No. (ADR) : UN 1230
UN-No. (IMDG) : UN 1230
UN-No. (IATA) : UN 1230
UN-No. (ADN) : UN 1230
UN-No. (RID) : UN 1230

14.2. UN proper shipping name

Proper Shipping Name (ADR) : METHANOL
Proper Shipping Name (IMDG) : METHANOL
Proper Shipping Name (IATA) : METHANOL
Proper Shipping Name (ADN) : METHANOL
Proper Shipping Name (RID) : METHANOL
Transport document description (ADR) : UN 1230 METHANOL, 3 (6.1), II, (D/E)
Transport document description (IMDG) : UN 1230 METHANOL, 3 (6.1), II, (12°C c.c.)
Transport document description (IATA) : UN 1230 METHANOL, 3 (6.1), II,
Transport document description (ADN) : UN 1230 METHANOL, 3 (6.1), II,
Transport document description (RID) : UN 1230 METHANOL, 3 (6.1), II,

14.3. Transport hazard class(es)

ADR

Transport hazard class(es) (ADR) : 3 (6.1)

IMDG

Transport hazard class(es) (IMDG) : 3 (6.1)

IATA

Transport hazard class(es) (IATA) : 3 (6.1)

ADN

Transport hazard class(es) (ADN) : 3 (6.1)

RID

Transport hazard class(es) (RID) : 3 (6.1)

14.4. Packing group

Packing group (ADR) : II
Packing group (IMDG) : II
Packing group (IATA) : II
Packing group (ADN) : II
Packing group (RID) : II

14.5. Environmental hazards

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Dangerous for the environment : No
Marine pollutant : No
Other information : No supplementary information available

14.6. Special precautions for user

Overland transport

Classification code (ADR) : FT1
Special provision (ADR) : 279
Limited quantities (ADR) : 1L
Excepted quantities (ADR) : E2
Packing instructions (ADR) : P001, IBC02,
Mixed packing provisions (ADR) : MP19
Portable tank and bulk container instructions (ADR) : T7
Portable tank and bulk container special provisions (ADR) : TP2
Tank code (ADR) : L4BH
Tank special provisions (ADR) : TU15
Vehicle for tank carriage : FL
Transport category (ADR) : 2
Special provisions for carriage - Loading, unloading and handling (ADR) : CV13, CV28
Special provisions for carriage - Operation (ADR) : S2, S19
Hazard identification number (Kemler No.) : 336
Tunnel restriction code (ADR) : D/E
EAC code : •2WE

Transport by sea

Special provisions (IMDG) : 279
Limited quantities (IMDG) : 1L
Excepted quantities (IMDG) : E2
Packing instructions (IMDG) : P001
IBC packing instructions (IMDG) : IBC02
Tank instructions (IMDG) : T7
Tank special provisions (IMDG) : TP2
Stowage category (IMDG) : B
Properties and observations (IMDG) : A wide range of toxic solids. Toxic if swallowed, by skin contact or by inhalation

Air transport

PCA Excepted quantities (IATA) : E2

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PCA Limited quantities (IATA) : Y341
PCA limited quantity max net quantity (IATA) : 1L
PCA packing instructions (IATA) : 352
PCA max net quantity (IATA) : 1L
CAO packing instructions (IATA) : 364
CAO max net quantity (IATA) : 60L
ERG code (IATA) : 3L

Inland waterway transport

Classification code (ADN) : FT1
Special provisions (ADN) : 279, 802
Limited quantities (ADN) : 1L
Excepted quantities (ADN) : E2
Equipment required (ADN) : PP, EP, EX, TOX, A
Number of blue cones/lights (ADN) : 2

Rail transport

Classification code (RID) : FT1
Special provision (RID) : 279
Limited quantities (RID) : 1L
Excepted quantities (RID) : E2
Packing instructions (RID) : P001, IBC02
Mixed packing provisions (RID) : MP19
Portable tank and bulk container instructions (RID) : T7
Portable tank and bulk container special provisions (RID) : TP2
Tank codes for RID tanks (RID) : L4BH
Transport category (RID) : 2
Colis express (express parcels) (RID) : CE7
Hazard identification number (RID) : 336

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable

15. Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

15.1.1 EU-Regulations

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Contains no REACH substances with Annex XVII restrictions
Contains no substance on the REACH candidate list $\geq 0,1$ % / SCL
Contains no REACH Annex XIV substances

15.1.2. National regulations

Germany

Reference to AwSV

: Water hazard class (WGK) 3, Highly hazardous to water (Classification according to AwSV, Annex 1)

12th Ordinance Implementing the Federal Immission Control Act - 12.BImSchV

: Is not subject of the 12. BImSchV (Hazardous Incident Ordinance)

Netherlands

SZW-lijst van kankerverwekkende stoffen

: PHENOLPHTHALEIN is listed

SZW-lijst van mutagene stoffen

: The substance is not listed

NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Borstvoeding

: The substance is not listed

NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Vruchtbaarheid

: PHENOLPHTHALEIN is listed

NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Ontwikkeling

: The substance is not listed

Denmark

Recommendations Danish Regulation

: Pregnant/breastfeeding women working with the product must not be in direct contact with the product

15.2. Chemical safety assessment

No chemical safety assessment has been carried out

16. Other information

Abbreviations and acronyms

Acute Tox. 3 (Dermal)	Acute toxicity (dermal), Category 3
Acute Tox. 3 (Inhalation)	Acute toxicity (inhal.), Category 3
Acute Tox. 3 Oral)	Acute toxicity (oral), Category 3
Flam. Liq. 2	Flammable liquids, Category 2
Flam. Liq. 3	Flammable liquids, Category 3
Muta. 2	Germ cell mutagenicity, Category 2
Repr. 2	Repr. 2 Reproductive toxicity, Category 2

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STOT SE 1

Specific target organ toxicity — Single exposure, Category 1

Safety Data Sheet (SDS), EU This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.

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